

Listing of Claims

1. - 20. (cancelled)

21. (previously presented) A screen assembly for releasable mounting to a mounting structure of a shale shaker, the mounting structure comprising a body over which a screen assembly is positionable, part of fluid to be treated by the shale shaker flowable through the body, at least one upwardly projecting member projecting upwardly from the body, said at least one upwardly projecting member sized and configured so it is receivable in a corresponding hole in the screen assembly, said at least one projecting member having a projecting member cross-sectional area, the screen assembly comprising

a support,

screening material on the support,

the support comprising a frame with two spaced-apart ends, the two spaced-apart ends spaced-apart by two spaced-apart sides, each of the two spaced-apart sides connected to each of the two spaced-apart ends, the frame having a plurality of spaced-apart crossmembers extending between the two spaced-apart sides from one side to the other side, at least part of the frame comprising a tubular member with a top and a bottom, a portion of the screening material on top of the tubular member,

at least one hole in the bottom of the tubular member, said at least one hole sized, configured, and located for receiving said at least one upwardly projecting member of the body of the mounting structure, said at least one hole having a hole cross-sectional area greater than said projecting member cross-sectional area.

22. (previously presented) A shale shaker system for separating components of drilling fluid with solids entrained therein, the shale shaker system comprising

a base,

a screen mounting basket on the base,

vibrating apparatus connected to the screen mounting basket for vibrating the screen mounting basket,

the screen mounting basket comprising mounting structure for at least one screen assembly mounted on the mounting structure, the mounting

9 structure comprising a body over which the at least one screen assembly is
10 positionable, part of the drilling fluid to be treated by the shale shaker flowable
11 through the at least one screen assembly and through the body,

12 at least one screen assembly mounted on the mounting structure,
13 the at least one screen assembly comprising a screen assembly
14 for releasable mounting to the mounting structure of a shale shaker,

15 the mounting structure having at least one upwardly projecting
16 member projecting upwardly from the body, said at least one upwardly
17 projecting member sized and configured so it is receivable in a corresponding
18 hole in the screen assembly, said at least one projecting member having a
19 projecting member cross-sectional area,

20 the at least one screen assembly including

21 a support,

22 screening material on the support,

23 the support comprising a frame with two spaced-apart ends,
24 the two spaced-apart ends spaced-apart by two spaced-apart sides, each
25 of the two spaced-apart sides connected to each of the two spaced-apart
26 ends, the frame having a plurality of spaced-apart crossmembers
27 extending between the two spaced-apart sides from one side to the other
28 side, at least part of the frame comprising a tubular member with a top
29 and a bottom, a portion of the screening material on top of the tubular
30 member, and

31 at least one hole in the bottom of the tubular member, said
32 at least one hole sized, configured, and located for receiving said at least
33 one upwardly projecting member of the body of the mounting structure,
34 said at least one hole having a hole cross-sectional area greater than said
35 projecting member cross-sectional area.

1 23. (previously presented) A screen assembly for releasable mounting to a
2 mounting structure of a shale shaker, the mounting structure comprising a body over
3 which a screen assembly is positionable, part of fluid to be treated by the shale shaker
4 flowable through the body, at least one upwardly projecting member projecting

5 upwardly from the body, said at least one upwardly projecting member sized and
6 configured so it is receivable in a corresponding hole in the screen assembly, said at
7 least one projecting member having a projecting member cross-sectional area, the
8 screen assembly comprising

9 a support,

10 screening material on the support,

11 the support comprising a frame with two spaced-apart ends, the
12 two spaced-apart ends spaced-apart by two spaced-apart sides, each of the
13 two spaced-apart sides connected to each of the two spaced-apart ends, the
14 frame having a plurality of spaced-apart crossmembers extending between the
15 two spaced-apart sides from one side to the other side, at least part of the
16 frame comprising a tubular member with a top and a bottom, a portion of the
17 screening material on top of the tubular member,

18 at least one hole in the tubular member, said at least one hole
19 sized, configured, and located for receiving said at least one upwardly
20 projecting member of the body of the mounting structure, said at least one hole
21 having a hole cross-sectional area greater than said projecting member cross-
22 sectional area.

1 24. (previously presented) A shale shaker system for separating components
2 of drilling fluid with solids entrained therein, the shale shaker system comprising

3 a base,

4 a screen mounting basket on the base,

5 vibrating apparatus connected to the screen mounting basket for
6 vibrating the screen mounting basket,

7 the screen mounting basket comprising mounting structure for at
8 least one screen assembly mounted on the mounting structure, the mounting
9 structure comprising a body over which the at least one screen assembly is
10 positionable, part of the drilling fluid to be treated by the shale shaker flowable
11 through the at least one screen assembly and through the body,

12 at least one screen assembly mounted on the mounting structure,

13 the at least one screen assembly comprising a screen assembly
14 for releasable mounting to the mounting structure of a shale shaker,

15 the mounting structure having at least one upwardly projecting
16 member projecting upwardly from the body, said at least one upwardly
17 projecting member sized and configured so it is receivable in a corresponding
18 hole in the screen assembly, said at least one projecting member having a
19 projecting member cross-sectional area,

20 the at least one screen assembly including

21 a support,

22 screening material on the support,

23 the support comprising a frame with two spaced-apart ends,

24 the two spaced-apart ends spaced-apart by two spaced-apart sides, each
25 of the two spaced-apart sides connected to each of the two spaced-apart
26 ends, the frame having a plurality of spaced-apart crossmembers
27 extending between the two spaced-apart sides from one side to the other
28 side, at least part of the frame comprising a tubular member with a top
29 and a bottom, a portion of the screening material on top of the tubular
30 member, and

31 at least one hole in the tubular member, said at least one
32 hole sized, configured, and located for receiving said at least one
33 upwardly projecting member of the body of the mounting structure, said
34 at least one hole having a hole cross-sectional area greater than said
35 projecting member cross-sectional area.